



THE STATE
of **ALASKA**
GOVERNOR MIKE DUNLEAVY

**Department of Environmental
Conservation**

DIVISION OF WATER
Wastewater Discharge Authorization Program

555 Cordova Street
Anchorage, AK 99501
Main: 907.269-6285
Fax: 907.334-2415

April 22, 2022

Matthew Lazarus
City of Kotzebue
P.O. Box 46
Kotzebue, AK 99752

DEC File No.: 410.48.008

Re: Kotzebue Water Treatment Plant Temporary Outfall Authorization

Dear Mr. Lazarus:

The Alaska Department of Environmental Conservation (DEC) has completed its review of the Notice of Intent for the Kotzebue Water Treatment Plant nano-filtrate discharge and is hereby issuing wastewater discharge authorization AKG380025. This authorization is effective **May 1, 2022** and expires **July 31, 2024**.

Prior to discharge, please review your authorization and general permit AKG380000 to ensure that you understand the requirements contained within them. If you have any questions regarding this authorization or general permit, please contact the appropriate DEC staff contact located in Section 6 of this authorization.

Sincerely,

A handwritten signature in black ink that reads "Earl L. Crapps".

Earl L. Crapps
Section Manager
Domestic and Industrial Utilities
Wastewater Discharge Authorization Program

Enclosures: General Permit and Fact Sheet AKG380000
Authorization AKG380025



Alaska Department of Environmental Conservation

Division of Water

Authorization to Discharge

AUTHORIZATION TO DISCHARGE UNDER THE ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM (APDES) FOR WASTEWATER DISCHARGES FROM DRINKING WATER TREATMENT FACILITIES

FACILITY ASSIGNED AUTHORIZATION NUMBER: AKG380025

GENERAL PERMIT NUMBER: AKG380000

See this General Permit for all permit requirements.

The following facility is authorized to discharge in accordance with the terms of the State of Alaska General Permit AKG380000 and any site-specific requirements listed in this authorization.

The authorization effective date is **May 1, 2022**

The authorization to discharge shall expire at midnight, **July 31, 2024**

The permittee shall reapply for a permit reissuance on or before **February 1, 2024**, 180 days prior to the expiration of the general permit.

SECTION 1 – RESPONSIBLE PARTY

Issued to: City of Kotzebue

SECTION 2 – FACILITY INFORMATION

Facility Name: Kotzebue Water Treatment Plant

Facility Location: Kotzebue

Type of Discharge: Nano-filter Concentrate

Outfall 001A **Temporary**
Location:

Latitude: 66° 53' 49" North

Longitude: 162° 34' 35" West

Raw Water Source: Surface Water

Waterbody Discharged to: Swan Lake-Kotzebue Slough

Maximum Estimated Daily Flow: 78,000 gallons per day

SECTION 3 – OUTFALL 001A EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Effluent Compliance Point: prior to discharge into the Swan Lake -Kotzebue Slough

Effluent Parameter ^a	Units ^b	Daily Minimum	Monthly Average	Maximum Daily	Sample Frequency	Sample Type
Total Residual Chlorine (TRC) ^{c,d}	mg/L	N/A	0.0075	0.013	1/Month	Grab
pH	SU	Report	N/A	Report	1/Month	Grab
Arsenic ^f	µg/L	N/A	36	69	2/Year ^e	Grab
Copper	µg/L	N/A	N/A	Report	2/Year	Grab
Dissolved Oxygen	mg/L	Report	N/A	N/A	1/Month	Grab
Fluoride ^g	µg/L	N/A	N/A	Report	2/Year	Grab
Lead	µg/L	N/A	N/A	Report	2/Year	Grab
Manganese	µg/L	N/A	N/A	300	1/Month	Grab
Salinity ^h	ppt	N/A	N/A	Report	2/Year	Grab
Temperature	°C	N/A	N/A	Report	1/Month	Grab
Total Ammonia, as Nitrogen	mg/L	N/A	N/A	Report	1/Month	Grab
Total Discharge Flow	gpd	N/A	N/A	Report	Continuous	Measured
Zinc	µg/L	N/A	N/A	Report	2/Year	Grab

Footnotes:

- Metal concentrations shall be reported as total recoverable metal.
- ° C = degrees Celsius, gpd = gallons per day, mg/L = milligrams per liter, ppt = parts per thousand, s.u. = standard units, µg/L = micrograms per liter
- Monitoring for TRC is not required if chlorinated water is not used to backwash filters, or if chlorine is not used as a disinfectant or cleaning agent.
- Compliance with the receiving water limits for total residual chlorine cannot be determined using EPA-approved analytical methods. DEC will use the 0.1 mg/L as the compliance limit for this parameter.
- Twice per year means two time periods during the calendar year: October through April and May through September.
- Arsenic must be monitored at a frequency of monthly if it is believed present in the waste stream from source water (i.e., groundwater); otherwise, arsenic must be monitored 2/year.
- Fluoride monitoring only if the facility backwashes with fluoridated, finished water.
- For marine discharges only.

SECTION 4 – MIXING ZONE AUTHORIZATION

Mixing Zone Authorization: A mixing zone is authorized for manganese and pH.

The mixing zone size is defined as the area of Swan Lake- Kotzebue Slough beginning at the end of the temporary outfall line extending 23 feet with a width of 11 feet.

SECTION 5 – RECEIVING WATERBODY MONITORING REQUIREMENTS ^a

Parameter	Units ^a	Sample Frequency	Sample Type
pH ^b	SU	2/ Year ^c	Grab
Temperature ^b	° C	2/ Year	Grab
Salinity ^{b, d}	ppt	2/ Year	Grab

Footnotes:

- SU (standard units), ° C (degrees Celsius), ppt (parts per thousand).
- pH, temperature, and salinity monitoring should occur to the extent practicable on the same day as effluent ammonia monitoring.
- Twice per year means two time periods during the calendar year: October through April and May through September. When sampling is not possible during the stated time period due to frozen conditions, twice per year shall be one sample in the summer and one sample just before freeze up.
- For marine water dischargers only.

SECTION 6- Electronic Reporting (E-Reporting) Rule for Discharge Monitoring Reports (DMR)

The permittee must submit DMR data electronically through NetDMR per Phase I of the E-Reporting Rule (40 CFR 127) upon the effective date of the Permit. Authorized persons may access permit information by logging into the NetDMR Portal (<https://cdxnodengn.epa.gov/oeca-netdmr-web/action/login>). DMRs submitted in compliance with the E-Reporting Rule are not required to be submitted as described in Appendix A – Standard Conditions unless requested or approved by the Department. Any DMR data required by the Permit that cannot be reported in a NetDMR field (e.g. mixing zone receiving water data, etc.), shall be included as an attachment to the NetDMR submittal. DEC has established an e-Reporting Information website at <http://dec.alaska.gov/water/compliance/electronic-reporting-rule> that contains general information about this new reporting format.

SECTION 7 – DEC STAFF CONTACTS

If you have any technical questions regarding this authorization or the requirements of the general permit AKG380000, please contact Amber Bennett at amber.bennett@alaska.gov or (907) 451-2190.

If you have questions regarding NetDMR, please contact Jessica Davison at jessica.davison@alaska.gov or (907) 451-2104.

If you have questions regarding compliance with any permit or authorization requirement, please contact Alexander Shahrokhi at alexander.shahrokhi@alaska.gov or (907) 451-2172.

A permittee shall orally report any noncompliance event that may endanger health or the environment within 24 hours after the permittee becomes aware of the circumstances and in writing within five days after the permittee becomes aware of the circumstances. Please use the phone numbers and addresses below to report noncompliance events. Additional information regarding twenty-four hour reporting may be found in Appendix A of General Permit AKG380000. The required written follow-up notification can be sent via fax, email, or U.S. Postal Service.

Alaska Department of Environmental Conservation
Attn: Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501

Toll Free Nationwide: 1-877-569-4114
Anchorage or International: 1-907-269-4114
Fax: 1-907-269-4604
email: dec-wgreporting@alaska.gov

SECTION 7– CERTIFICATION/SIGNATURE



Signature

Earl L. Crapps

Printed Name

April 22, 2022

Date

Section Manager Domestic & Industrial Utilities

Title